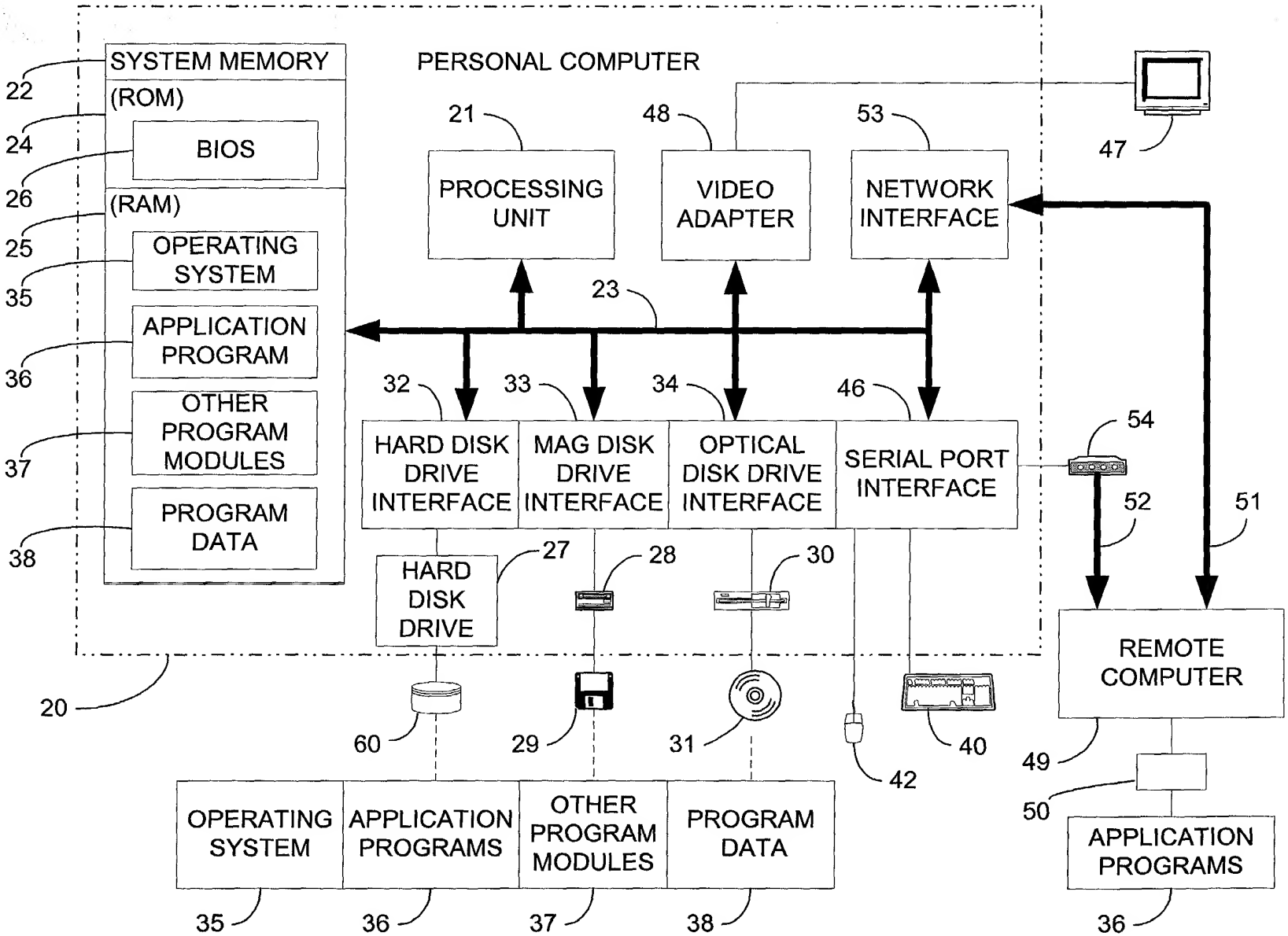
PERSONAL COMPUTER
SYSTEM MEMORY
(ROM)
BIOS
(RAM)
OPERATING SYSTEM
APPLICATION PROGRAM
OTHER PROGRAM MODULES
PROGRAM DATA
PROCESSING UNIT
VIDEO ADAPTER
NETWORK INTERFACE
HARD DISK DRIVE INTERFACE
MAG DISK DRIVE INTERFACE
OPTICAL DISK DRIVE INTERFACE
SERIAL PORT INTERFACE
HARD DISK DRIVE
REMOTE COMPUTER
APPLICATION PROGRAMS
OPERATING SYSTEM
APPLICATION PROGRAMS
OTHER PROGRAM MODULES
PROGRAM DATA
20
21
22
23
24
25
26
27
28
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31
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51
52
53
54
60

Fig. 1

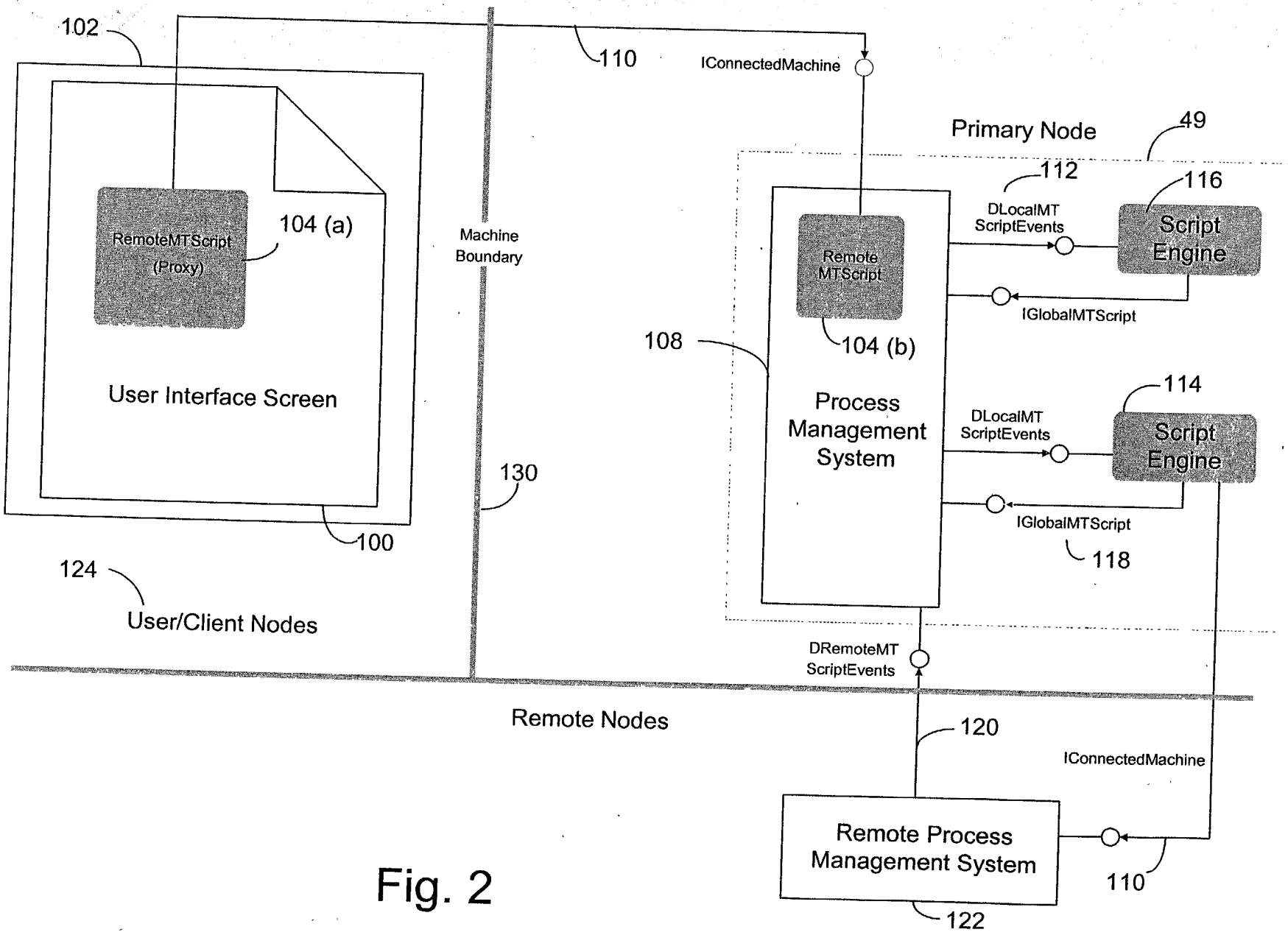
102
110
IConnectedMachine
Primary Node
49
112
116
DLocalMT ScriptEvents
Script Engine
RemoteMTScript (Proxy)
104 (a)
Machine Boundary
Remote MTScript
IGlobalMTScript
104 (b)
108
User Interface Screen
Process Management System
114
DLocalMT ScriptEvents
Script Engine
130
IGlobalMTScript
118
100
124
User/Client Nodes
DRemoteMT ScriptEvents
Remote Nodes
120
IConnectedMachine
Remote Process Management System
110
122

Fig. 2

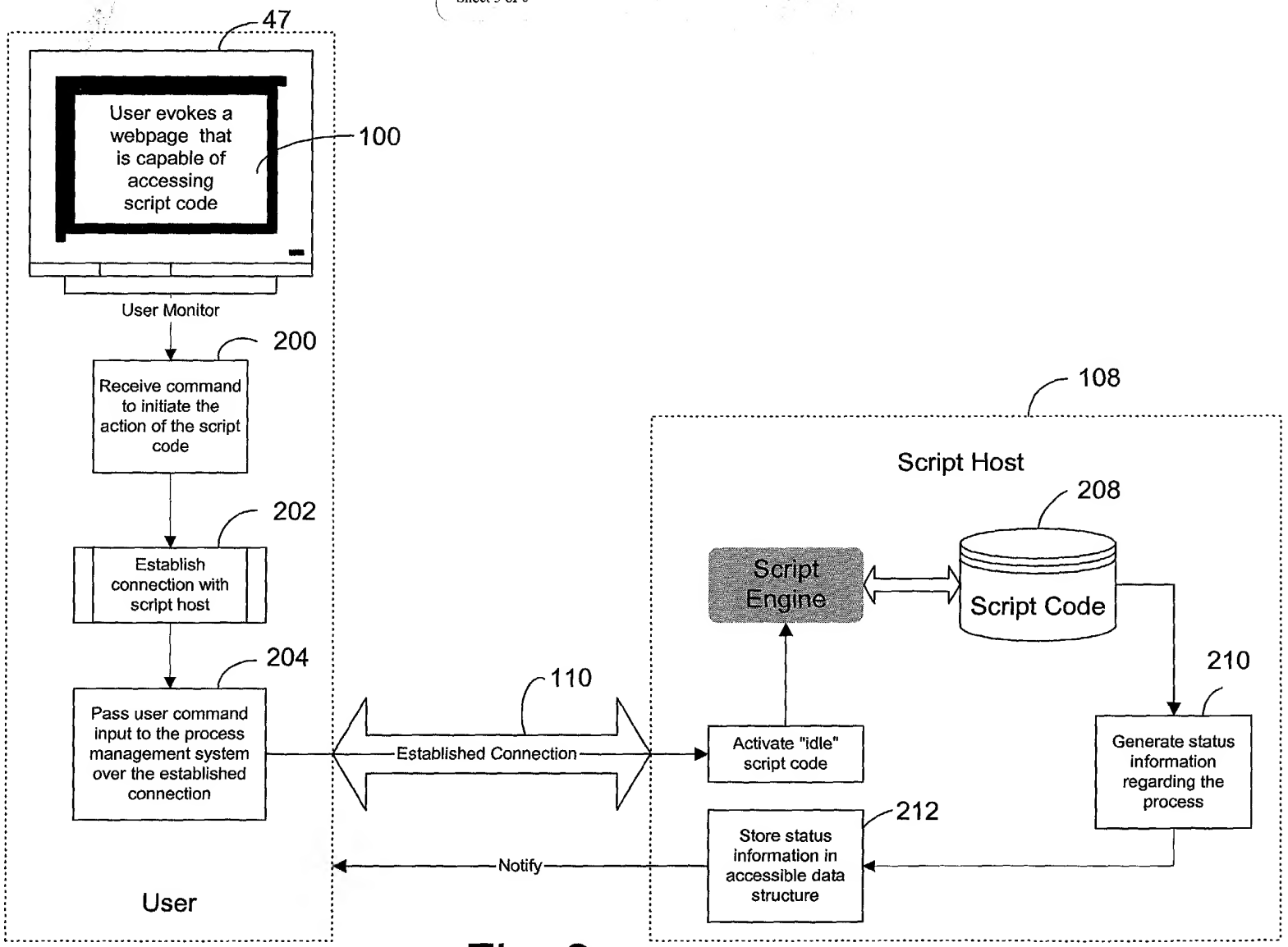
47
User evokes a webpage that is capable of accessing script code
100
User Monitor
200
Receive command to initiate the action of the script code
202
Establish connection with script host
204
Pass user command input to the process management system over the established connection
User
110
Established Connection
108
Script Host
208
Script Engine
Script Code
210
Activate "idle" script code
Generate status information regarding the process
212
Store status information in accessible data structure
Notify

Fig. 3

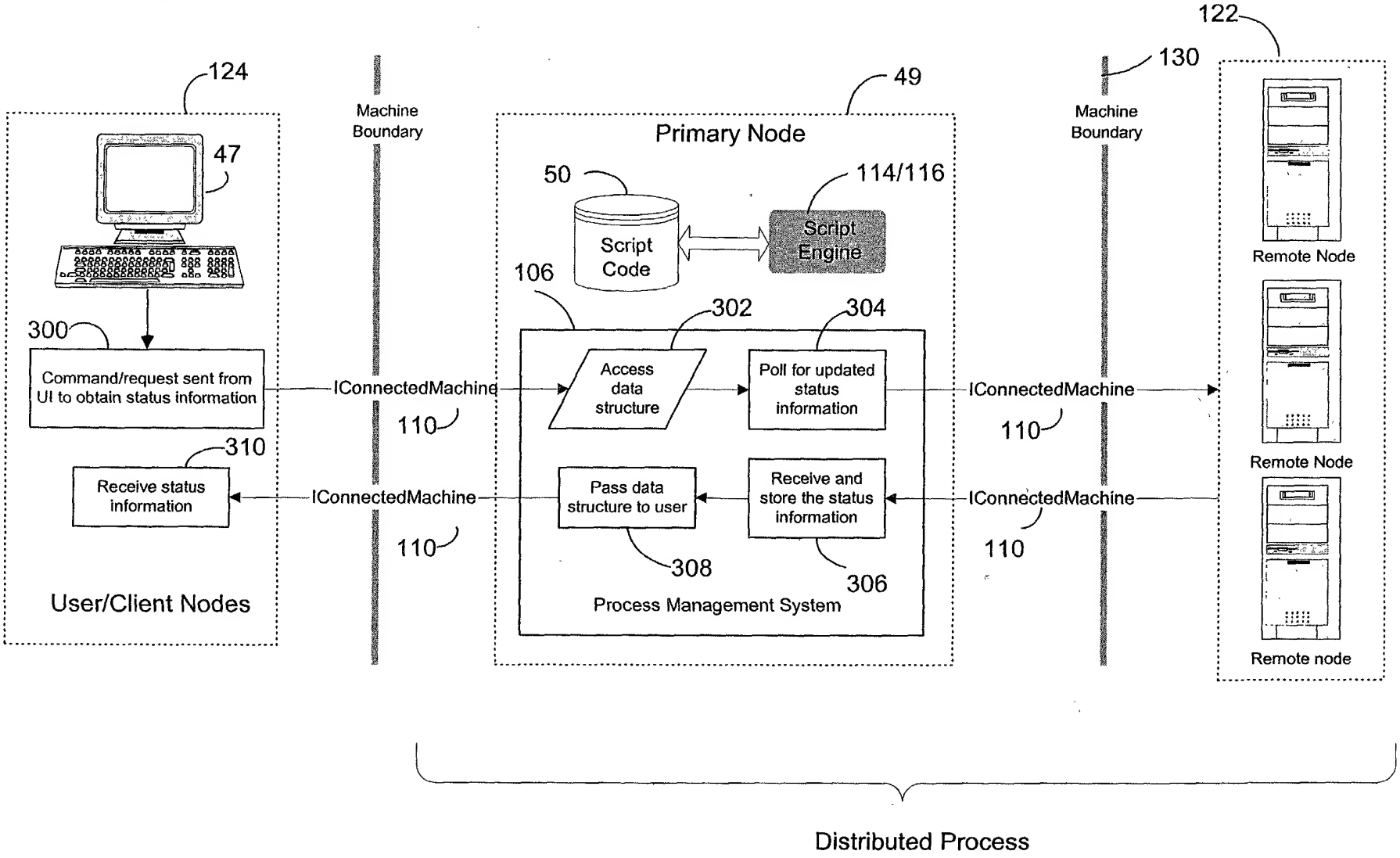
122
130
124
49
Machine Boundary
Primary Node
Machine Boundary
47
50
114/116
Script Code
Script Engine
Remote Node
106
302
304
300
Command/request sent from UI to obtain status information
IConnectedMachine
Access data structure
Poll for updated status information
IConnectedMachine
110
110
Remote Node
310
Receive status information
IConnectedMachine
Pass data structure to user
Receive and store the status information
IConnectedMachine
110
110
308
306
Process Management System
User/Client Nodes
Remote node
Distributed Process

Fig. 4

Process Management System Architecture

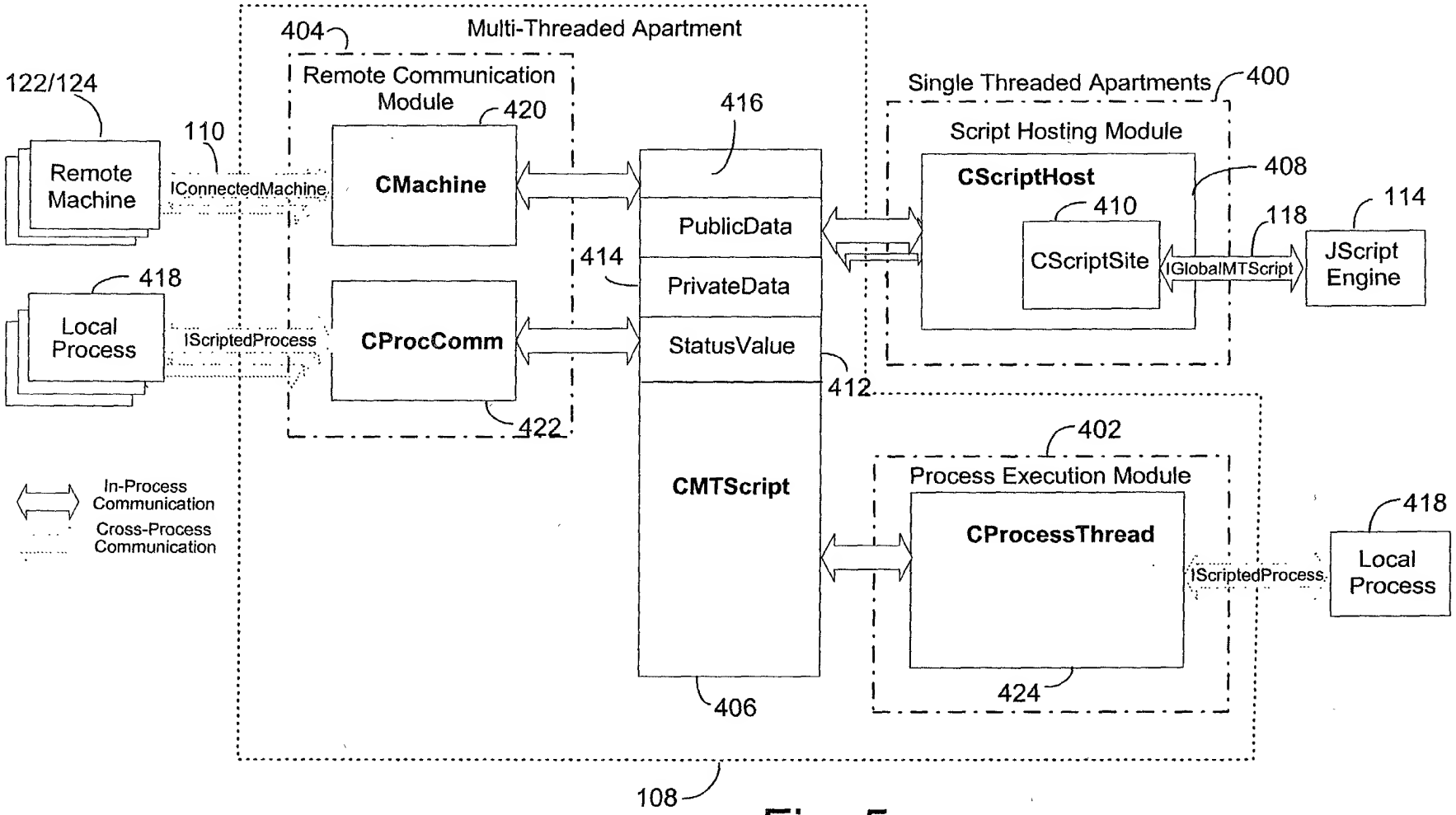

Fig. 5

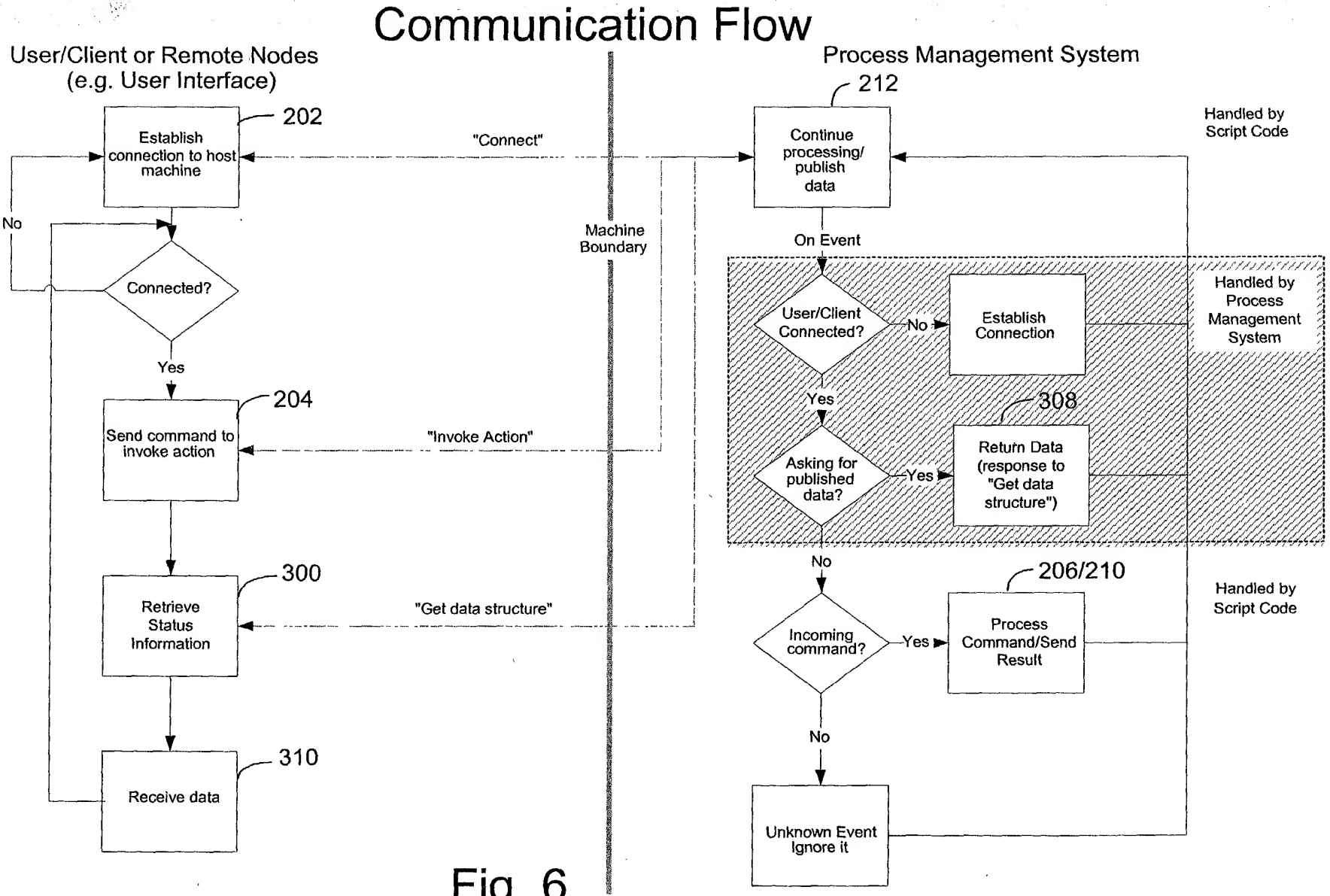
Communication Flow
User/Client or Remote Nodes (e.g. User Interface)
Process Management System
Establish connection to host machine
202
"Connect"
Continue processing/ publish data
212
Handled by Script Code
No
Machine Boundary
On Event
Connected?
Yes
User/Client Connected?
No
Establish Connection
Handled by Process Management System
Send command to invoke action
204
"Invoke Action"
Yes
308
Asking for published data?
Yes
Return Data (response to "Get data structure")
No
206/210
Retrieve Status Information
300
"Get data structure"
Incoming command?
Yes
Process Command/Send Result
Handled by Script Code
No
Receive data
310
Unknown Event Ignore it

Fig. 6